

PS 3311

Physical Science Concepts I

Summer, 2022, MTWRF 12:00pm - 1:45pm

VIN 155



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Office Hours: MTWTF 11a – 12p (in my office or classroom preparing)

Course Information

Course Description

Physical Science 3311 is a study of physical systems and subsystems, interactions, measurements, unit systems, motion, forces, energy, properties of matter, and Earth sciences.

Prerequisite and Co-requisite Courses

MATH 1314 College Algebra or MATH 1324 Finite Mathematics I

Prerequisite Skills

Accessing Internet websites, using ASU Library resources, and proficiency with Microsoft Word and creating PDF documents.

Student Learning Outcomes

The objective of the study of the physical sciences as a component to the major curriculum for teacher education is to ensure excellence in the instruction of natural science objectives by the teachers in the State of Texas. Specific outcomes and objectives include that the student will:

1. Understand and apply appropriate methods and technology to the study of the natural sciences.
2. Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.

3. Demonstrate technical and analytical skills appropriate to a future career in teaching by engaging in quantitative laboratory experimentation.
4. Demonstrate the intellectual ability to translate, interpret, and extrapolate the most important scientific models and laws governing units and measurement, motion, forces, matter and energy.
5. Further, develop critical thinking and problem-solving skills in the area of physics and the natural sciences.

Course Delivery

This is a Face-To-Face offering. Lectures will not be recorded. Each class will include several activities that will be completed during class. Participation is key to experiential, inquiry learning and thus material cannot be made up if absent. Similar online activities will be available only for excused absences but the learning outcomes will not be the same. Quizzes and exams will be based on in-class activities. Additional participation points will be granted based on in-class performance.

Required Texts and Materials

- *Physical Science 3311 Manual*, available in the ASU bookstore.
- A three ring binder should be purchased to keep all materials together.
- You will need a webcam for use with Respondus LockDown Browser and Monitor. You will also need a picture ID for Respondus Monitor. More info [below](#).

Technology Requirements

To successfully complete this course, students need to have access to a smart phone with camera, a printer, a capable computer with Microsoft Office and pdf viewer, Respondus LockDown Browser, a webcam, and a picture ID such as your student ID card.

Respondus LockDown Browser and Monitor

This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that's built into your computer or one that plugs in with a USB cable. This brief video will give you a basic understanding:

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download and install LockDown Browser from this link:

<https://download.respondus.com/lockdown/download.php?id=384131921>

Once Installed

- Start LockDown Browser
- Log into Blackboard Learn

Navigate to the test

Note: You won't be able to access tests with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

When taking an online test, follow these guidelines:

- Have a picture ID such as your student ID card available.
- Ensure you're in a location where you won't be interrupted
- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it
- Clear your desk or workspace of all external materials not permitted - books, papers, other devices
- Remain at your computer for the duration of the test
- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims
 - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move
 - If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete
 - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
 - Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

Several resources are available if you encounter problems:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
- Respondus has a Knowledge Base available from www.support.respondus.com. Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product

- If you're still unable to resolve a technical issue with LockDown Browser, go to www.support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it

Communication

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Written communication via email: All private communication will be done exclusively through your ASU email address and Blackboard. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone, Collaborate, Skype, etc.

Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below.

Assessment	Points out of 600
Assignments, homework, vocabulary	6 sections * 10 = 60 pts
Discussions, Collaboration, Participation	21 days * 12 = 252 pts
Section Quizzes	6 Quizzes * 20 = 120 pts
Exams	2 Exams * 90 = 180 pts
Total	612 pts (12 bonus points)

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

A = 540 – 600 points

B = 480 – 539.99 points

C = 420 – 479.99 points

D = 360 – 419.99 points

F = 0 – 359.99 points (Grades are not rounded up)

Assignment and Activity Descriptions

There are four methods of assessment for Student Learning Outcomes:

- The semester will be grouped into six sections: Units, Motion, Force, Energy, Properties of Matter, and Sound. Each section will have daily grades/assignments. The assignments will vary greatly between measurements, taking notes, worksheets, graphs, lab manual completion, homeworks, etcetera. This totals 300 points and is 50% of your grade.
- We will have a Respondus Browser midterm exam that will only cover the first three sections and a Respondus Browser final exam that will cover only the last three section. Each exam will be worth 90 points. This totals 180 points and is 30% of your grade.
- Each section will have a Respondus Browser quiz worth 20 points. This totals 120 points and is 20% of your grade.

Due Dates and Late Work

- All Daily activities will be due **AT THE END OF CLASS** unless otherwise indicated.
- All first-half late work will be able to be made up on the review day before the midterm. All second-half late work will be able to be made up on the review day before the final exam.
- Late work is worth half credit. The exams serve as a hard deadline for late work.
- Due date extensions will not be granted based on technical issues, health, or personal events.

General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)¹
- [Angelo State University Catalog](#)²

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#).³

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁴ The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)⁵ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁶ in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).⁷

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#)⁸ for more information.

Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

Course Schedule

Day #	Date	Section	Quiz Due
1	6-Jun	Introduction, U1, U2	
2	7-Jun	U2, U3, U4, U5	
3	8-Jun	U6, U7, U8, U9	U Due
4	9-Jun	M1, M2, M3	
5	10-Jun	M4, M5, M6	
6	13-Jun	M7, M8, M9	M Due
7	14-Jun	F1, F2, F3	
8	15-Jun	F4, F5, F6	
9	16-Jun	F7, F8	F Due
10	17-Jun	REVIEW	
	20-Jun	MIDTERM EXAM (U, M, F)	Midterm Due
11	21-Jun	E1, E2, E3	
12	22-Jun	E4, E5, E6	
13	23-Jun	E7, E8	E Due
14	24-Jun	PM1, PM2, PM3	
15	27-Jun	PM4, PM5, PM6	
16	28-Jun	PM7, PM8, PM9	
17	29-Jun	PM10, PM11	PM Due
18	30-Jun	S1, S2	
19	1-Jul	S3, S4	
20	5-Jul	S5, S6	S Due
21	6-Jul	REVIEW	
	7-Jul	FINAL EXAM (E, PM, S)	Final Due

¹ <https://www.angelo.edu/student-handbook/>

² <https://www.angelo.edu/catalogs/>

³ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁴ <https://www.angelo.edu/services/disability-services/>

⁵ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁶ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁷ https://www.angelo.edu/dept/writing_center/academic_honesty.php

⁸ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>